# Thomas D Crenshaw

## List of Publications by Year in Descending Order



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| 91 papers | 2,238 citations | 29 h-index | 43 g-index |
| 102 ext. papers | 2,423 ext. citations | 2.4 avg, IF | 4.3 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 91 | Evaluation of experimental, analytical, and computational methods to determine long-bone bending stiffness. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 115, 104253 | 4.1 | 2 |
| 90 | Histological and radiographic evaluation of three common tendon transfer techniques in an un-ossified bone porcine model: implications for early anterior tibialis tendon transfers in children with clubfeet. *Journal of Children's Orthopaedics*, **2021**, 15, 443-450 | 2.1 | |
| 89 | Estimation of phosphorus requirements of sows based on 24-h urinary phosphorus excretion during gestation and lactation. *British Journal of Nutrition*, **2021**, 1-12 | 3.6 | 1 |
| 88 | Lessons learned from the hypovitaminosis D kyphotic pig model. *Journal of Animal Science*, **2020**, 98, S52-S57 | 0.7 | 2 |
| 87 | Presence of lipid oxidation products in swine diet lowers pork quality and stability during storage. *Meat Science*, **2020**, 160, 107946 | 6.4 | 3 |
| 86 | Peripartum Ca and P homeostasis in multiparous sows fed adequate or excess dietary Ca. *Animal*, **2020**, 14, 1821-1828 | 3.1 | 1 |
| 85 | Effect of anti-fibroblast growth factor receptor 1 antibodies on phosphorus metabolism in laying hens and their progeny chicks. *Poultry Science*, **2019**, 98, 5691-5699 | 3.9 | |
| 84 | Impact of dietary vitamin D3 supplements in nursery diets on subsequent growth and bone responses of pigs during an immune challenge. *Journal of Animal Science*, **2019**, 97, 4895-4903 | 0.7 | 2 |
| 83 | Maternal Diets Deficient in Vitamin D Increase the Risk of Kyphosis in Offspring: A Novel Kyphotic Porcine Model. *Journal of Bone and Joint Surgery - Series A*, **2018**, 100, 406-415 | 5.6 | 5 |
| 82 | Gene expression of matrix metalloproteinase 9 (MMP9), matrix metalloproteinase 13 (MMP13), vascular endothelial growth factor (VEGF) and fibroblast growth factor 23 (FGF23) in femur and vertebra tissues of the hypovitaminosis D kyphotic pig model. *British Journal of Nutrition*, **2018**, 120, 404-414 | 3.6 | 4 |
| 81 | Design of a surrogate for evaluation of methods to predict bone bending stiffness. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 88, 346-351 | 4.1 | 2 |
| 80 | Serum and tissue 25-OH vitamin D3 concentrations do not predict bone abnormalities and molecular markers of vitamin D metabolism in the hypovitaminosis D kyphotic pig model. *British Journal of Nutrition*, **2017**, 118, 30-40 | 3.6 | 13 |
| 79 | Acidogenic mineral additions increased Ca mobilization in prepartum sows. *Journal of Animal Science*, **2017**, 95, 212-225 | 0.7 | 2 |
| 78 | 184 Alleged predisposing factors in diets fail to increase the incidence of osteochondrosis lesions in growing pigs at 12 and 24 weeks of age. *Journal of Animal Science*, **2017**, 95, 88-88 | 0.7 | |
| 77 | Elevation of circulating serotonin improves calcium dynamics in the peripartum dairy cow. *Journal of Endocrinology*, **2016**, 230, 105-23 | 4.7 | 24 |
| 76 | Tendon transfer to unossified bone in a porcine model: potential implications for early tibialis anterior tendon transfers in children with clubfeet. *Journal of Children's Orthopaedics*, **2016**, 10, 705-714 | 2.1 | 2 |
| 75 | Osteochondrosis prevalence and severity at 12 and 24 weeks of age in commercial pigs with and without organic-complexed trace mineral supplementation. *Journal of Animal Science*, **2016**, 94, 3817-3823 | 0.7 | 6 |

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| 74 | The Swine Plasma Metabolome Chronicles "Many Days" Biological Timing and Functions Linked to Growth. *PLoS ONE*, **2016**, 11, e0145919 | 3.7 | 23 |
| 73 | Effects of Poor Maternal Nutrition during Gestation on Bone Development and Mesenchymal Stem Cell Activity in Offspring. *PLoS ONE*, **2016**, 11, e0168382 | 3.7 | 17 |
| 72 | Maternal dietary vitamin D carry-over alters offspring growth, skeletal mineralisation and tissue mRNA expressions of genes related to vitamin D, calcium and phosphorus homoeostasis in swine. *British Journal of Nutrition*, **2016**, 116, 774-87 | 3.6 | 11 |
| 71 | Patterns of circulating serotonin and related metabolites in multiparous dairy cows in the peripartum period. *Journal of Dairy Science*, **2015**, 98, 3754-65 | 4 | 11 |
| 70 | Increasing serotonin concentrations alter calcium and energy metabolism in dairy cows. *Journal of Endocrinology*, **2015**, 226, 43-55 | 4.7 | 37 |
| 69 | A cooperative study on the standardized total-tract digestible phosphorus requirement of twenty-kilogram pigs. *Journal of Animal Science*, **2015**, 93, 5743-53 | 0.7 | 10 |
| 68 | Modeling the metabolic fate of dietary phosphorus and calcium and the dynamics of body ash content in growing pigs. *Journal of Animal Science*, **2015**, 93, 1200-17 | 0.7 | 25 |
| 67 | Supplementation of organic and inorganic selenium to diets using grains grown in various regions of the United States with differing natural Se concentrations and fed to grower-finisher swine. *Journal of Animal Science*, **2014**, 92, 4991-7 | 0.7 | 18 |
| 66 | Short communication: Timing of first milking affects serotonin (5-HT) concentrations. *Journal of Dairy Science*, **2014**, 97, 2944-8 | 4 | 10 |
| 65 | Triennial Growth Symposium: Vitamin D--establishing the basics to dispel the hype. *Journal of Animal Science*, **2014**, 92, 883-6 | 0.7 | 2 |
| 64 | Impacts of Withdrawal Periods of Dried Distillers Grains with Solubles on Quality Attributes of Fresh Pork Bratwursts and Bacon. *Journal of Food Quality*, **2014**, 37, 371-382 | 2.7 | 2 |
| 63 | Serotonin regulates calcium homeostasis in lactation by epigenetic activation of hedgehog signaling. *Molecular Endocrinology*, **2014**, 28, 1866-74 | | 35 |
| 62 | Dietary hydroxyproline induced calcium oxalate lithiasis and associated renal injury in the porcine model. *Journal of Endourology*, **2013**, 27, 1493-8 | 2.7 | 10 |
| 61 | Tissue mineral concentrations and osteochondrosis lesions in prolific sows across parities 0 through 7. *Journal of Animal Science*, **2013**, 91, 1255-69 | 0.7 | 6 |
| 60 | Octanoate and nonaoate oxidation increases 50-80% over the first two days of life in piglet triceps brachii and gracilis muscle strips. *Journal of Nutrition*, **2012**, 142, 999-1003 | 4.1 | 1 |
| 59 | Dietary induction of long-term hyperoxaluria in the porcine model. *Journal of Endourology*, **2012**, 26, 433-8 | 2.7 | 10 |
| 58 | Expression of kyphosis in young pigs is induced by a reduction of supplemental vitamin D in maternal diets and vitamin D, Ca, and P concentrations in nursery diets. *Journal of Animal Science*, **2012**, 90, 4905-15 | 0.7 | 22 |
| 57 | Triennial Growth Symposium: a novel pathway for vitamin D-mediated phosphate homeostasis: implications for skeleton growth and mineralization. *Journal of Animal Science*, **2011**, 89, 1957-64 | 0.7 | 21 |

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| 56 | Corn distillers dried grains with solubles in diets for growing-finishing pigs: a cooperative study. *Journal of Animal Science*, **2011**, 89, 2801-11 | 0.7 | 49 |
| 55 | Hydroxyproline-induced hyperoxaluria using acidified and traditional diets in the porcine model. *Journal of Endourology*, **2010**, 24, 355-9 | 2.7 | 15 |
| 54 | Coronary bare metal stent implantation in homozygous LDL receptor deficient swine induces a neointimal formation pattern similar to humans. *Atherosclerosis*, **2010**, 213, 518-24 | 3.1 | 26 |
| 53 | Recovery of bone strength in young pigs from an induced short-term dietary calcium deficit followed by a calcium replete diet. *Medical Engineering and Physics*, **2010**, 32, 1116-23 | 2.4 | 16 |
| 52 | The addition of ground wheat straw as a fiber source in the gestation diet of sows and the effect on sow and litter performance for three successive parities. *Journal of Animal Science*, **2009**, 87, 1003-12 | 0.7 | 36 |
| 51 | Reticulocyte enrichment of zinc protoporphyrin/heme discriminates impaired iron supply during early development. *Pediatric Research*, **2008**, 64, 63-7 | 3.2 | 15 |
| 50 | The effects of alfalfa-based molt diets on skeletal integrity of white leghorns. *Poultry Science*, **2008**, 87, 2178-85 | 3.9 | 7 |
| 49 | Supplemental Escherichia coli phytase and strontium enhance bone strength of young pigs fed a phosphorus-adequate diet. *Journal of Nutrition*, **2007**, 137, 1795-801 | 4.1 | 18 |
| 48 | Oral sodium chlorate, topical disinfection, and younger weaning age reduce Salmonella enterica shedding in pigs. *Journal of Food Protection*, **2007**, 70, 1798-803 | 2.5 | 9 |
| 47 | The biphasic response of porcine tendon to recombinant porcine growth hormone. *Growth Hormone and IGF Research*, **2005**, 15, 39-46 | 2 | 6 |
| 46 | Bioavailability of organic manganese sources in broilers fed high dietary calcium. *Animal Feed Science and Technology*, **2005**, 123-124, 703-715 | 3 | 44 |
| 45 | Comparison of dietary selenium fed to grower-finisher pigs from various regions of the United States on resulting tissue Se and loin mineral concentrations. *Journal of Animal Science*, **2005**, 83, 852-7 | 0.7 | 22 |
| 44 | Use of chemical characteristics to predict the relative bioavailability of supplemental organic manganese sources for broilers. *Journal of Animal Science*, **2004**, 82, 2352-63 | 0.7 | 74 |
| 43 | Chronic metabolic acid load induced by changes in dietary electrolyte balance increased chloride retention but did not compromise bone in growing swine. *Journal of Animal Science*, **2003**, 81, 197-208 | 0.7 | 21 |
| 42 | Vitamin K supplementation does not affect ovariectomy-induced bone loss in rats. *Bone*, **2002**, 30, 897-900 | 4.7 | 17 |
| 41 | Growth promotion effects and plasma changes from feeding high dietary concentrations of zinc and copper to weanling pigs (regional study). *Journal of Animal Science*, **2000**, 78, 1010-6 | 0.7 | 144 |
| 40 | Boron supplementation of a semipurified diet for weanling pigs improves feed efficiency and bone strength characteristics and alters plasma lipid metabolites. *Journal of Nutrition*, **2000**, 130, 2575-81 | 4.1 | 84 |
| 39 | In vitro fermentation of swine ileal digesta containing oat bran dietary fiber by rat cecal inocula adapted to the test fiber increases propionate production but fermentation of wheat bran ileal digesta does not produce more butyrate. *Journal of Nutrition*, **2000**, 130, 585-93 | 4.1 | 21 |

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| 38 | Effect of sensory stimuli on huddling behavior of pigs. *Journal of Animal Science*, **2000**, 78, 592-6 | 0.7 | 16 |
| 37 | The effect of thermal environment and age on neonatal pig behavior. *Journal of Animal Science*, **2000**, 78, 583-91 | 0.7 | 21 |
| 36 | Further assessment of the dietary lysine requirement of finishing gilts. *Journal of Animal Science*, **2000**, 78, 987-92 | 0.7 | 29 |
| 35 | Prostaglandin f(2alpha) induces distinct physiological responses in porcine corpora lutea after acquisition of luteolytic capacity. *Biology of Reproduction*, **2000**, 63, 1504-12 | 3.9 | 56 |
| 34 | Variability among sources and laboratories in nutrient analyses of corn and soybean meal. NCR-42 Committee on Swine Nutrition. North Central Regional-42. *Journal of Animal Science*, **1999**, 77, 3262-73 | 0.7 | 67 |
| 33 | Carnitine and dehydroepiandrosterone sulfate induce protein synthesis in porcine primary osteoblast-like cells. *Calcified Tissue International*, **1999**, 64, 527-33 | 3.9 | 30 |
| 32 | Distribution of mineralization indices of modeling and remodeling over eight months in middiaphyseal cross sections of femurs from adult swine. *The Anatomical Record*, **1998**, 250, 136-45 | | 13 |
| 31 | Methods for improving the efficiency of estimating total osteon density in the human anterior mid-diaphyseal femur. *American Journal of Physical Anthropology*, **1998**, 107, 13-24 | 2.5 | 24 |
| 30 | Mitochondrial lysine uptake limits hepatic lysine oxidation in rats fed diets containing 5, 20 or 60% casein. *Journal of Nutrition*, **1998**, 128, 2427-34 | 4.1 | 31 |
| 29 | Rates of lysine catabolism are inversely related to rates of protein synthesis when measured concurrently in adult female rats induced to grow at different rates. *Journal of Nutrition*, **1998**, 128, 1503-11 | 4.1 | 8 |
| 28 | The effect of farrowing crate heat lamp location on sow and pig patterns of lying and pig survival. *Journal of Animal Science*, **1998**, 76, 2995-3002 | 0.7 | 32 |
| 27 | Synthesis of [9-14C]nonanoic acid via 2-thienyl(14CH3)(cyano)cuprate and its oxidation by newborn piglet muscle strips. *Analytical Biochemistry*, **1997**, 248, 1-6 | 3.1 | 7 |
| 26 | Efficiency of lysine or threonine retention in growing rats fed diets limiting in either lysine or threonine. *Journal of Nutrition*, **1996**, 126, 3090-9 | 4.1 | 49 |
| 25 | Recombinant bovine somatotropin decreases hepatic amino acid catabolism in female rats. *Journal of Nutrition*, **1996**, 126, 1657-61 | 4.1 | 9 |
| 24 | Protein and amino acid requirements for maintenance and amino acid requirements for growth of laboratory rats. *Journal of Nutrition*, **1994**, 124, 451-3 | 4.1 | 23 |
| 23 | Lysine-alpha-ketoglutarate reductase and saccharopine dehydrogenase are located only in the mitochondrial matrix in rat liver. *Journal of Nutrition*, **1994**, 124, 1215-21 | 4.1 | 42 |
| 22 | Diminishing returns in weight, nitrogen, and lysine gain of pigs fed six levels of lysine from three supplemental sources. *Journal of Animal Science*, **1994**, 72, 3177-87 | 0.7 | 51 |
| 21 | Does weight-bearing exercise affect non-weight-bearing bone?. *Journal of Bone and Mineral Research*, **1993**, 8, 1053-8 | 6.3 | 44 |

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| 20 | The dietary protein and(or) lysine requirements of barrows and gilts. NCR-42 Committee on Swine Nutrition. *Journal of Animal Science*, **1993**, 71, 1510-9 | 0.7 | 83 |
| 19 | Evaluation of [1-14C]-medium-chain fatty acid oxidation by neonatal piglets using continuous-infusion radiotracer kinetic methodology. *Journal of Nutrition*, **1992**, 122, 2183-9 | 4.1 | 11 |
| 18 | A histomorphometric study of cortical bone activity during increased weight-bearing exercise. *Journal of Bone and Mineral Research*, **1991**, 6, 741-9 | 6.3 | 79 |
| 17 | Use of a four-parameter logistic equation to evaluate the response of growing rats to ten levels of each indispensable amino acid. *Journal of Nutrition*, **1991**, 121, 1720-9 | 4.1 | 59 |
| 16 | Utilization of medium-chain triglycerides by neonatal piglets: chain length of even- and odd-carbon fatty acids and apparent digestion/absorption and hepatic metabolism. *Journal of Nutrition*, **1991**, 121, 605-14 | 4.1 | 46 |
| 15 | Postnatal age and the metabolism of medium- and long-chain fatty acids by isolated hepatocytes from small-for-gestational-age and appropriate-for-gestational-age piglets. *Journal of Nutrition*, **1991**, 121, 615-21 | 4.1 | 20 |
| 14 | Value of raw soybeans and soybean oil supplementation in sow gestation and lactation diets: a cooperative study. *Journal of Animal Science*, **1991**, 69, 656-63 | 0.7 | 5 |
| 13 | The effect of dietary potassium and chloride on cation-anion balance in swine. *Journal of Animal Science*, **1991**, 69, 2504-15 | 0.7 | 7 |
| 12 | Bone mechanical properties after exercise training in young and old rats. *Journal of Applied Physiology*, **1990**, 68, 130-4 | 3.7 | 127 |
| 11 | Effect of postnatal nutritional status on subsequent growth and reproductive performance of gilts. *Journal of Animal Science*, **1989**, 67, 975-82 | 0.7 | 8 |
| 10 | Influence of minor plant constituents on porcine hepatic lipid metabolism. Impact on serum lipids. *Atherosclerosis*, **1987**, 64, 109-15 | 3.1 | 43 |
| 9 | Mechanical properties of the tibiotarsus of broilers and poults loaded with artificial weight and fed various dietary protein levels. *Poultry Science*, **1986**, 65, 1357-64 | 3.9 | 29 |
| 8 | The effect of meal intervals and weaning on feed intake of early weaned pigs. *Journal of Animal Science*, **1986**, 62, 1233-9 | 0.7 | 35 |
| 7 | Reliability of dietary Ca and P levels and bone mineral content as predictors of bone mechanical properties at various time periods in growing swine. *Journal of Nutrition*, **1986**, 116, 2155-70 | 4.1 | 36 |
| 6 | Modeling Dynamic Agricultural Production Response: The Case of Swine Production. *American Journal of Agricultural Economics*, **1985**, 67, 636-646 | 3.1 | 42 |
| 5 | Homocyst(e)ine accumulation in pigs fed diets deficient in vitamin B-6: relationship to atherosclerosis. *Journal of Nutrition*, **1983**, 113, 2022-33 | 4.1 | 48 |
| 4 | Lysine Requirement of Pigs Weighing 5 to 15 kg Fed Practical Diets with and without Added Fat. *Journal of Animal Science*, **1980**, 51, 361-366 | 0.7 | 27 |
| 3 | Response of different genetic lines of boars to varying levels of dietary calcium and phosphorus. *Journal of Animal Science*, **1980**, 51, 112-20 | 0.7 | 7 |

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| 2 | Effect of Various Levels of Dietary Calcium and Phosphorus on Performance, Blood and Bone Parameters in Growing Boars. *Journal of Animal Science*, **1980**, 51, 100-104 | 0.7 | 10 |
| 1 | Dietary hydroxyproline induced calcium oxalate lithiasis and associated renal injury in the porcine model. *Journal of Endourology*,150127063130004 | 2.7 | |